

1 **Abstract**

2 A system to provide an operator with a predictively distorted display of a theater
3 of operations. An image of the theater is acquired with a conventional camera
4 and then the acquired image is distorted to take into account environmental
5 factors such as air speed, ground speed, wind speed, height, etc. For example
6 in a simple embodiment of the present invention can be used where a platform
7 such as an airplane is moving over a geographic feature and objects are being
8 dropped from the platform. With the present invention, a geographic feature that
9 is actually directly under the platform is made to appear on a display as if it is
10 behind the platform. The reason for this is that if an object is dropped at a
11 particular instant, it can only impact at positions that at that moment are ahead of
12 the platform. Hence, positions ahead of the platform are made to appear directly
13 under the platform. The amount that each pixel in the display is distorted takes
14 into account the both the speed of the platform, the aerodynamics of any
15 projectile, and other environmental factors.